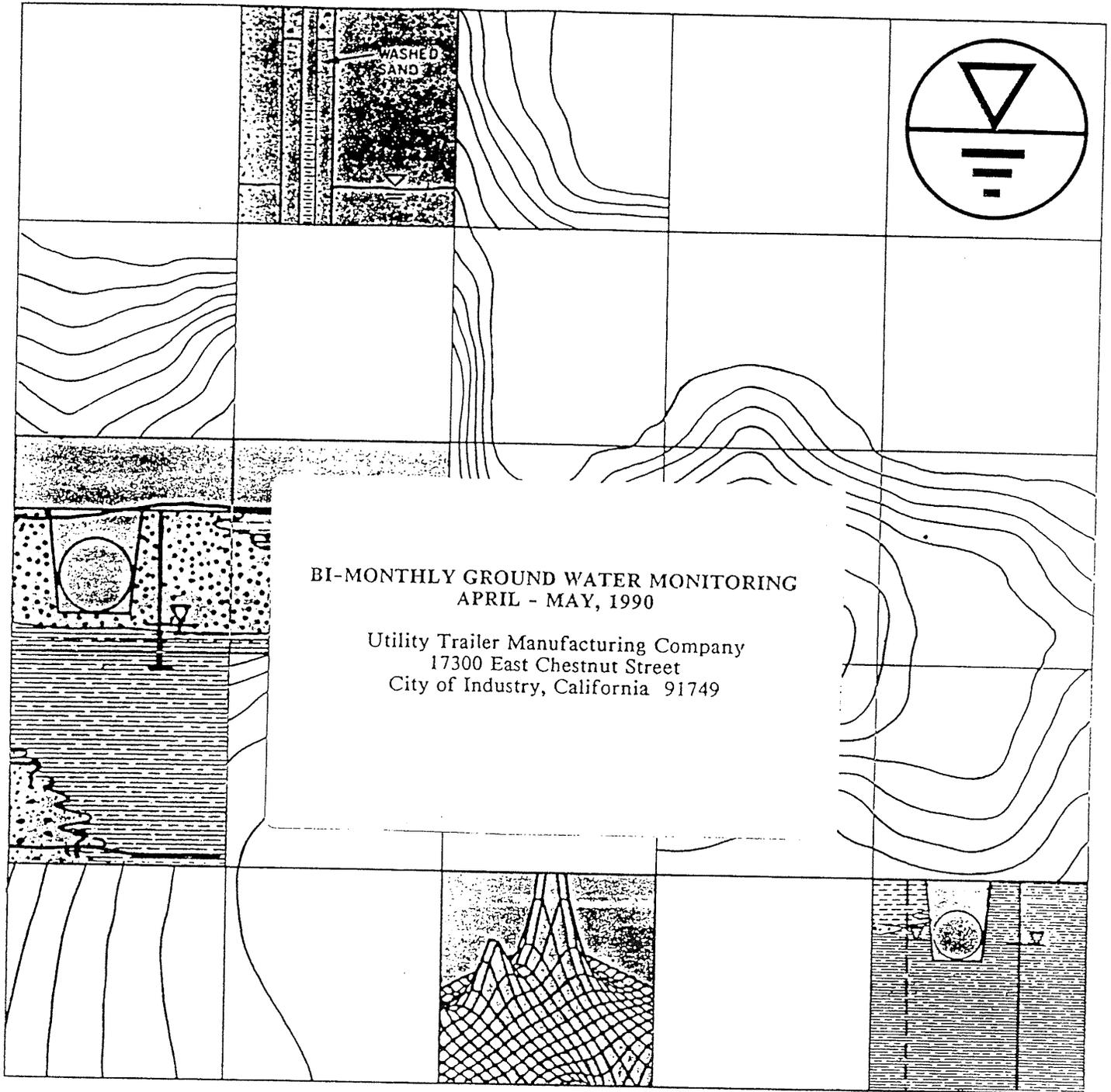


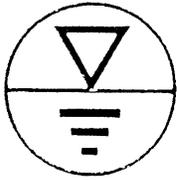
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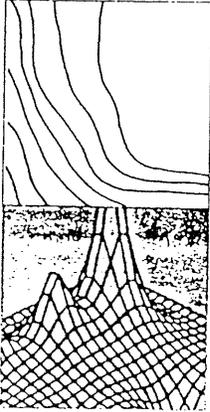
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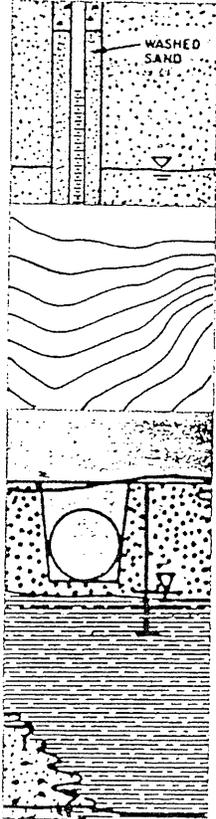
Prepared for:

Utility Trailer Manufacturing, Inc.
P.O. Box 1299
City of Industry, California 91749

Attention: Mr. Gary Little

BI-MONTHLY GROUND WATER MONITORING APRIL - MAY, 1990

Utility Trailer Manufacturing Company
17300 East Chestnut Street
City of Industry, California 91749



HFR00035.090

Project Number 1614-06

May 30, 1990

UTM 000566

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BI-MONTHLY GROUND WATER MONITORING
APRIL - MAY, 1990
17300 EAST CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

1.0 EXECUTIVE SUMMARY

Presented herein are the results of bi-monthly ground water sampling completed during April and May, 1990 for Utility Trailer Manufacturing, Inc. located in the City of Industry, California. Samples collected from the Site's five ground water monitoring wells were analyzed for volatile halogenated and aromatic hydrocarbons. Sampled ground water is shallow and unconfined with an average gradient of less than 0.01 feet per foot and a northwesterly flow direction.

Five volatile halogenated hydrocarbon compounds were detected in Site ground water. These included tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1 trichloroethane (TCA), 1,1 dichloroethane (DCA), and 1,1 dichloroethene (DCE). All of these compounds have been previously detected in Site ground water. All isoconcentration maps illustrate the location of highest concentrations of volatile halogenated hydrocarbons to be on the northern or central portions of the Site, near MW-2, MW-3, and MW-6.

2.0 INTRODUCTION

This report presents the findings of bi-monthly ground water monitoring completed for Utility Trailer Manufacturing, Incorporated. Included are an analysis of collected data and a summary of monitoring related activities completed during April and May, 1990.

2.1 SITE DESCRIPTION

Utility Trailer Manufacturing Company (the "Site") is located at 17300 East Chestnut Street, in the City of Industry, Los Angeles County, California (Figure 1).

The Site is bounded by Chestnut Street and San Jose Creek to the north, Los Angeles Water Company to the east, Somitex Prints of California, Inc. to the south and a vacant dirt field adjacent to Azusa Road to the west (Figure 2). The Site is currently occupied by a main manufacturing building, plant operations building and numerous small operational support buildings. The property is paved with asphalt and concrete, except for two unpaved areas located on the north and west portions of the Site. The northern area is used as an employee parking lot. The western area is used as a quality assurance test track. In the past, the Site has been used by previous occupants for raising livestock and other agricultural activities.

2.2 BACKGROUND

From October, 1987 to June, 1989 environmental investigations were conducted at the Site by Triad Engineering and HYDRO-FLUENT, INC. These studies assessed the degree to which Site soil and ground water had been impacted by volatile halogenated and aromatic hydrocarbons. An overview of these investigations was presented in HYDRO-FLUENT, INC.'s June 9, 1989 report entitled "Ground Water Assessment" (Job No. 1614-04).

Upon reviewing these reports the California Regional Water Quality Control Board (CRWQCB) requested a bi-monthly ground water monitoring program for the Site (File No. AB105.296). In response to this request, Utility Trailer Manufacturing, Inc. contracted HYDRO-FLUENT, INC. to collect ground water samples from the Site's five existing monitoring wells and to present analytical test results in a format acceptable to the CRWQCB. The requested monitoring period began in August, 1989 and will continue until October, 1990.

3.0 GEOLOGY

3.1 REGIONAL GEOLOGY

The Site is located in the Puente Valley between the San Jose Hills to the north and the Puente Hills to the south. The Site is part of the Peninsular Range physiographic province, and lies within the Northeastern structural block as defined by United States Geological Survey (Yerkes and others, 1965). The region consists of Quaternary aged sediments and moderately thick Tertiary aged sedimentary strata overlying crystalline basement rocks.

The Tertiary aged sequence consists of fine- to coarse-grained marine clastic sedimentary rocks which have been divided into three formational units, the Puente, Repetto, and Pico Formations. The Puente Formation is the oldest Tertiary aged unit and the Pico Formation the youngest.

Quaternary aged sediments consists of unconsolidated to semi-consolidated alluvial and terrace deposits. Recent alluvium consists of coarse boulders, gravel, sand, silt, and some clay. Thickness of the alluvium ranges from a few inches to 100 feet depending upon the distance from the local hills. The thicker deposits occur at the center of the valley. Sediments are generally finer grained with increased distance from the local hills.

The Site overlies the Puente ground water basin. Water bearing zones exist in the upper member of the Pico Formation and the alluvium deposits. Ground water flow is generally east to west towards the Whittier Narrows area, and generally follows the San Jose Creek flood control channel.

3.2 SITE GEOLOGY

The Site is located adjacent to San Jose Creek within Quaternary aged alluvium underlain by Tertiary aged marine sediments. Clayey and sandy silts comprise the majority of sediments between the ground surface and 12 feet. Sands interbedded with silty clay predominate the sediments from 12 to 50 feet. The sands range from fine- to coarse-grained and commonly contain some clay. Coarser-grained sands generally occur at a lower depth within the borings and commonly contain approximately ten percent irregular shaped, angular gravel ranging from one to three inches in diameter. The MW-3 and MW-6 borings were terminated in a suspected impermeable silty clay.

3.3 HYDROGEOLOGY

Depth to ground water was measured to the nearest 0.01 of a foot at the time of sampling on April 12, 1990 and again on May 14, 1990. Ground water elevations were calculated by subtracting these heights from the surveyed well elevations and are presented in Table 1. Using these data, two ground water piezometric surfaces were contoured and are presented on Figures 3 and 4.

The contoured data exhibits a shallow unconfined layer of perched (?) ground water at an elevation of approximately 355 feet above mean sea level with an average gradient of less than 0.01 feet per foot (calculated at 0.00509 feet per foot) and a northwesterly flow direction. From January, 1990 to April, 1990 the ground water surface rose in Monitoring Wells MW-2 and MW-3 (an average rise of 0.30 feet), then dropped in the month of May. The ground water surface measured at all other Site Monitoring Wells began to drop in April (See Figure 5).

4.0 GROUND WATER SAMPLING METHODS

Prior to sampling, the wells were purged a minimum of three well volumes to remove standing water from the well casing and to promote the flow of water from the surrounding formation into the well casing. Well purging was accomplished through the use of a teflon bailer. Well volumes were calculated based on the height of the water column in the well casing and the casing diameter. All purging equipment was thoroughly washed using an aqueous solution of Alconox and double rinsed in bottled distilled water before being placed into a well.

Purge water was collected by lowering the bailer to the mid-point of the screened interval of each well. The wells were purged until the pH, electric conductance (EC) and temperature stabilized. A Presto-Tek model DspH-3 pH and conductivity meter was used to measure pH and EC, and a Taylor Instruments pocket mercury thermometer was used to measure temperature.

Water samples were collected using a clean teflon bailer. The teflon bailer was properly washed with an aqueous solution of Alconox and double rinsed in distilled water prior to the each use. For the purpose of quality control, a field blank was collected and designated "MW-7". This sample consisted of water which had been used for the final rinse of the sampling equipment. Chemical analysis of this sample is presented in Appendix A.

Samples obtained for determination of volatile organic hydrocarbons (VOC) were collected in 40-milliliter, "zero head-space" glass vials with teflon septa. The pre-cleaned vials were filled so that a positive (upward) meniscus resulted. The caps were secured and the vial inverted and tapped on a hard surface. If air bubbles were observed, the sample was discarded and the sampling procedure repeated.

All ground water samples were immediately labeled, placed into an ice chest with blue ice and chilled to 4 degrees Centigrade. Samples were delivered to a California state certified laboratory for analysis.

5.0 ANALYTICAL TESTING

Subsequent to the collection and proper labeling of each water sample, a HYDRO-FLUENT, INC. Chain-of-Custody Form was utilized to properly document the samples' date and time of collection, field conditions and identification number and/or location. Upon the completion of each day's field work, samples were transported under chain of custody to The Earth Technology Corporation, a California state certified laboratory, for chemical analysis by EPA established test methods. All testing procedures are described in Section 5.1 Analytical Methods.

5.1 ANALYTICAL METHODS

All ground water samples were analyzed utilizing EPA Method 624 (Method 624) which identifies volatile halogenated and aromatic hydrocarbons utilizing a gas chromatograph as a separator and a mass spectrometer as a detector.

5.2 ANALYTICAL RESULTS

Method 624 analysis of Site ground water revealed detectable amounts of five volatile halogenated hydrocarbon compounds. These included tetrachloroethene (PCE), trichloroethene (TCE), 1,1,1 trichloroethane (TCA), 1,1 dichloroethane (DCA), and 1,1 dichloroethene (DCE). All of these compounds have been previously detected in Site ground water.

The highest concentrations of halogenated hydrocarbons were detected in samples collected from monitoring wells MW-2, MW-3, and MW-6 (See Tables 2, 3, and 6). Ground water from MW-2 contained the Site maximum concentrations of PCE and DCA, determined at 720 and 10 ppb, respectively. Samples from MW-3 contained the Site maximum concentration of TCE, determined at 49 ppb. Ground water from MW-6 contained the Site maximum concentrations of TCA and DCE, determined at 57 and 49 ppb, respectively.

Concentrations of halogenated hydrocarbons detected at wells MW-4 and MW-5 were generally lower than those detected at monitoring wells MW-2, MW-3, and MW-6 (See Tables 4 and 5). Chemical analysis of these samples detected concentrations of PCE ranging from 34 to 80 ppb, TCE concentrations ranging from nondetected to trace amounts (approximately 4 ppb), TCA concentrations ranging from trace amounts (approximately 13 ppb) to 17 ppb, and DCE concentrations ranging from nondetected to 9 ppb. DCA was nondetected in these samples.

6.0 SUMMARY OF FINDINGS

6.1 HYDROGEOLOGY

Contoured ground water piezometric surfaces exhibit a shallow unconfined layer of perched (?) ground water with an average gradient of less than 0.01 feet per foot and a northwesterly flow direction.

6.2 ANALYTICAL OBSERVATIONS

Five volatile halogenated hydrocarbon compounds were detected in Site ground water samples. The highest concentrations were detected in samples collected from monitoring wells MW-2, MW-3, and MW-6. Maximum Site concentrations detected from MW-2 ground water were, 720 ppb of PCE and 10 ppb of DCA. The maximum Site concentration of 49 ppb of TCE was detected in MW-3 ground water. Maximum Site concentrations detected from MW-6 ground water were, 57 ppb of TCA and 49 ppb of DCE.

Concentrations of detected volatile halogenated hydrocarbons were contoured to produce compound specific isoconcentration maps of the Site (See Figures 6, 7, 8, 9, and 10). A uniform, linear relationship was used to interpolate concentration values between data points. The contouring did not incorporate any site specific geological, historical, or operational information. An isoconcentration map was not contoured for DCA, because concentrations of this analyte were not quantified above detectable trace amounts. All isoconcentration maps illustrate the location of highest concentrations of volatile halogenated hydrocarbons to be on the northern or central portions of the Site (near MW-2 and MW-3, and MW-6, respectively).

Except for samples collected from MW-6, concentrations of detected volatile halogenated hydrocarbons were generally lower or remained approximately the same as those observed during the February, 1990 sampling.

7.0 SCHEDULED WORK ACTIVITIES

Ground water sampling is tentatively scheduled for the middle of June, 1990. Ground water elevations will be measured during the sampling work and again in the middle of July, 1990. Purge water generated during April and June, 1990 sampling work will be manifested as a hazardous waste and transported by a California state licensed hazardous waste hauler to an appropriate facility for treatment and disposal. This waste will be transported on or prior to July 10, 1990.

8.0 LIMITATIONS

8.1 REPORT

Services performed by the Consultant under this Agreement were conducted in a manner consistent with that level of care and skill ordinarily exercised by members of the profession currently practicing under similar conditions and in similar locations.

Client recognizes that subsurface conditions may vary from those encountered at the location where borings, surveys, or explorations are made by the Consultant and that the data, interpretations and recommendations of the Consultant are based solely on the information available to him. The Consultant shall not be responsible for the interpretation by others of the information developed.

The interpretations and conclusions of this report are based in part on data supplied by others, (previous investigation performed by others, laboratory analysis results, and toxicology or health information supplied by others). Such information, prepared by professionals, and in the case of the laboratory, certified by the State of California and using test methods established by the Environmental Protection Agency, are presumed correct and representative. The consultant has no control over or involvement in such testing or analysis, and does not possess a means of confirming accuracy of test results. Therefore, the consultant disclaims any responsibility for inaccuracy of information supplied by others in the preparation of this report.

Samples, sample analyses and observations used in the preparation of this report are inferred to be representative of the study area, however, geologic and hydrogeologic conditions revealed by future work at the site may disagree with preliminary findings. If conditions are different from those presented in the preliminary findings, the designs and plans may be re-evaluated and adjusted by the project engineer or geologist.

The findings in this report are valid as of the date presented. Site conditions may alter with time due to natural or man-made changes on this or adjacent property. Additionally, changes in governmental regulations applicable to the site may occur. The findings of this report may be partially, or wholly invalidated by changes beyond the consultant's control.

TABLES

TABLE 1
GROUND WATER ELEVATIONS

MONITORING WELL NUMBER	WELL LOCATION CALIFORNIA COORDINATES NORTHINGS/EASTINGS	* SURVEYED ELEVATION (FEET ABOVE MEAN SEA LEVEL)		DEPTH TO GROUND WATER (FEET)		GROUND WATER ELEVATION (FEET ABOVE MEAN SEA LEVEL)	
		4/12/90	5/14/90	4/12/90	5/14/90	4/12/90	5/14/90
MW-2	4,115,173.6537 / 4,310,197.4018	377.16	23.45	23.98	353.71	353.18	
MW-3	4,114,893.3839 / 4,310,644.9150	378.56	22.27	22.68	356.29	355.88	
MW-4	4,114,197.0643 / 4,310,242.6061	383.57	27.92	28.25	355.65	355.32	
MW-5	4,114,527.5265 / 4,310,068.9473	381.15	26.42	26.79	354.73	354.36	
MW-6	4,114,687.7317 / 4,310,297.7964	380.20	24.55	24.93	355.65	355.27	

* ELEVATION SURVEYED TO TOP EDGE OF WELL BOX

† THE CALIFORNIA COORDINATES FOR MW-3 SHOWN ON HYDRO-FLUENT, INC. JUNE 9, 1989 (JOB # 1614-04) REPORT WERE INCORRECTLY CALCULATED BY THE SURVEYOR. THE CORRECT COORDINATES ARE SHOWN HERE.

TABLE 2

GROUND WATER ANALYTICAL RESULTS
MONITORING WELL MW-2

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)					
	5/10/89	8/29/89	10/12/89	12/12/89	02/13/90	04/13/90
VC	TR (3)	ND (10)	ND (5)	ND (10)	ND (50)	ND (50)
FREON 11	ND (5)	ND (5)	17	TR (8)	ND (50)	ND (50)
TRANS-1,2 DCE	ND (5)	ND (5)	13	ND (5)	ND (25)	ND (25)
DCE	480	26	120	110	97	43
DCA	72	9	42	22	TR (19)	TR (10)
CHLOROFORM	ND (5)	ND (5)	ND (5)	TR (3)	ND (25)	ND (25)
TCA	240	37	70	64	52	27
TCE	74	62	96	65	56	40
PCE	1100	150	990	E (910)	820	720

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (E) estimated concentration; (VC) vinyl chloride; (FREON 11) trichlorofluoromethane; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TRANS-1,2 DCE) trans-1,2 dichloroethene; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

TABLE 3

GROUND WATER ANALYTICAL RESULTS
MONITORING WELL MW-3

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)					
	5/11/89	8/29/89	10/12/89	12/12/89	02/13/90	04/13/90
FREON 11	5	ND (10)	31	ND(100)	ND (50)	ND (50)
TRANS-1,2 DCE	ND (5)	ND (5)	20	ND (50)	ND (25)	ND (25)
DCE	28	97	34	TR (15)	TR (13)	ND (25)
DCA	18	20	11	ND (50)	ND (25)	ND (25)
TCA	89	53	6	TR (16)	TR (10)	ND (25)
TCE	63	53	100	80	56	49
PCE	100	530	170	330	340	340

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (FREON 11) trichlorofluoromethane; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TRANS-1,2 DCE) trans-1,2 dichloroethene; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

TABLE 4

GROUND WATER ANALYTICAL RESULTS
MONITORING WELL MW-4

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)					
	5/11/89	8/28/89	10/11/89	12/12/89	02/12/90	04/12/90
CARBON DISULFIDE	ND (5)	ND (5)	TR (4)	ND (50)	ND (5)	ND (25)
DCE	25	17	14	ND (50)	12	ND (25)
DCA	TR (2)	ND (5)	ND (5)	ND (50)	ND (5)	ND (25)
TCA	30	20	19	TR (17)	15	TR (13)
TCE	5	TR (3)	ND (5)	TR (23)	TR (3)	ND (25)
PCE	120	79	73	89	87	80
TOLUENE	ND (5)	ND (5)	TR (2)	ND (50)	ND (5)	ND (25)

NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (DCE) 1,1 dichloroethene; (DCA) 1,1 dichloroethane; (TCA) 1,1,1 trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

TABLE 5

GROUND WATER ANALYTICAL RESULTS
MONITORING WELL MW-5

DETECTED COMPOUNDS	EPA METHOD 624 ug/l (ppb)					
	5/10/89	8/28/89	10/11/89	12/11/89	02/12/90	04/12/90
CARBON DISULFIDE	ND (5)	ND (5)	7	ND (5)	ND (5)	ND (5)
DCE	17	11	9	8	9	9
DCA	TR (2)	ND (5)	ND (5)	TR (1)	ND (5)	ND (5)
CHLOROFORM	ND (5)	ND (5)	TR (2)	ND (5)	ND (5)	ND (5)
TCA	32	20	21	17	21	17
TCE	6	TR (4)	TR (4)	TR (5)	TR (4)	TR (4)
PCE	48	32	34	38	44	34

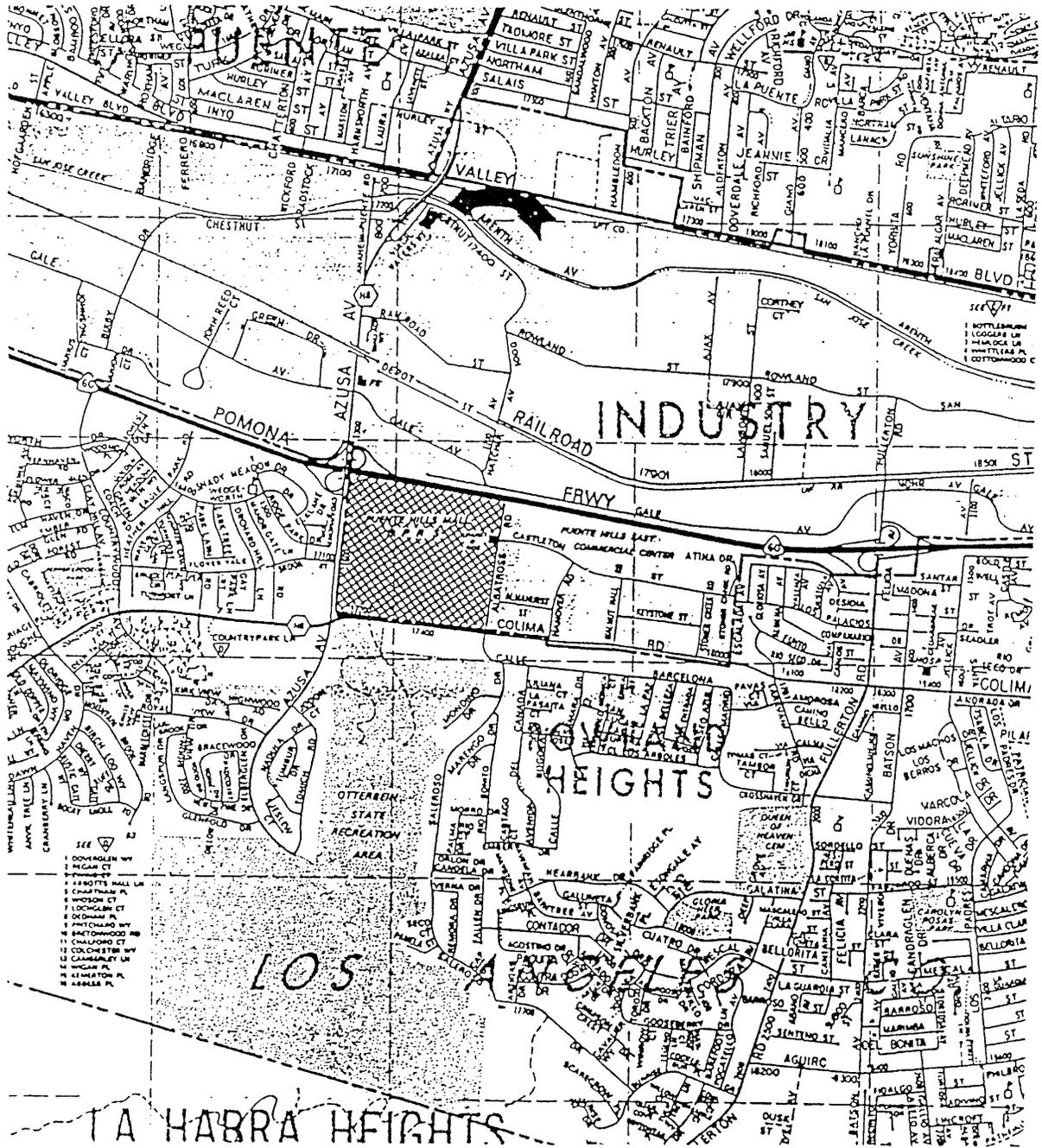
NOTES: (ND) nondetected, detection limit shown; (TR) trace detected, estimated amount shown; (DCE) 1,1-dichloroethene; (DCA) 1,1-dichloroethane; (TCA) 1,1,1-trichloroethane; (TCE) trichloroethene; (PCE) tetrachloroethene; (ppb) parts per billion; (ug/l) micrograms per liter.

FIGURES

SITE

LOCATION

MAP



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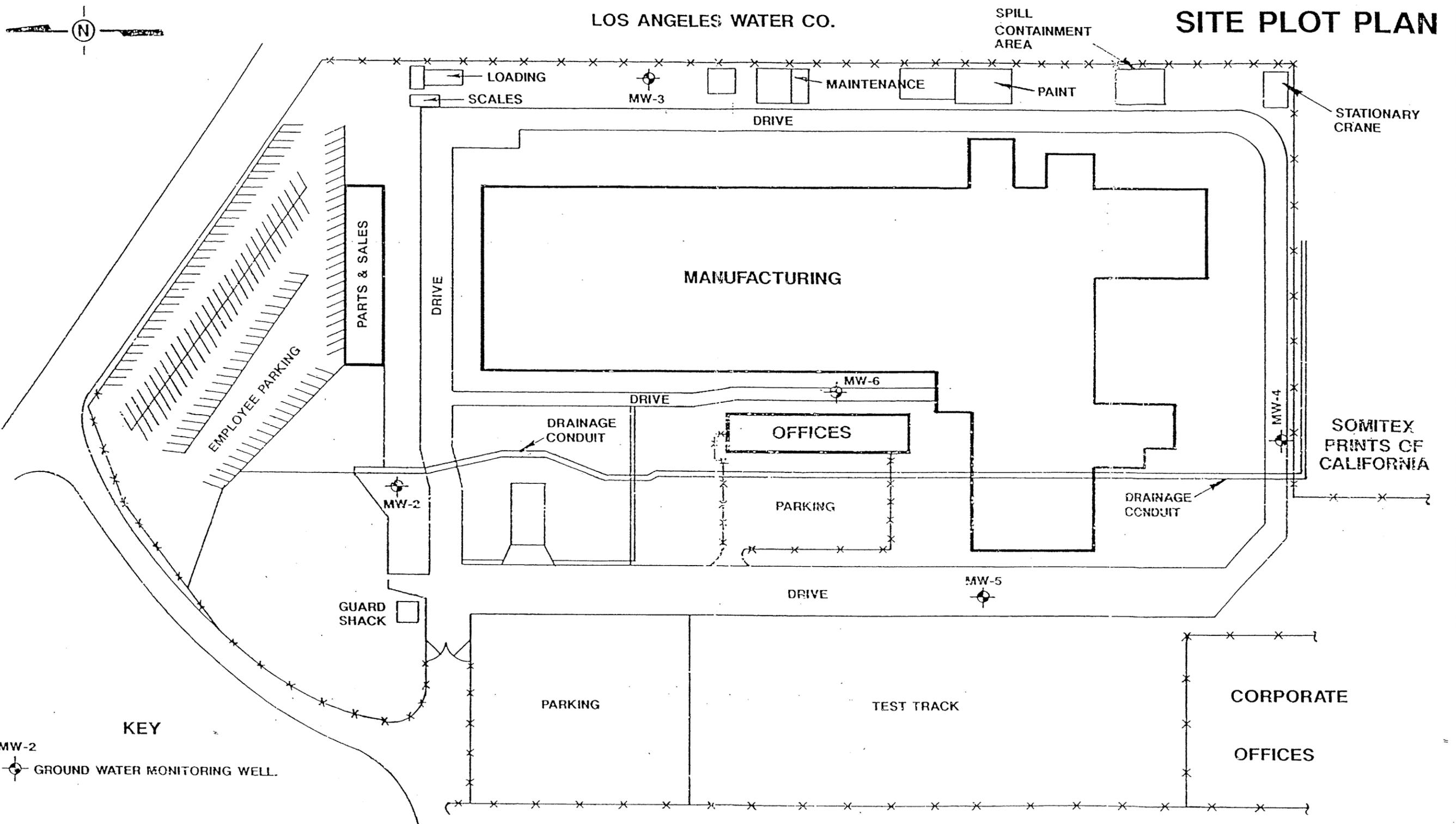
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1730 E CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

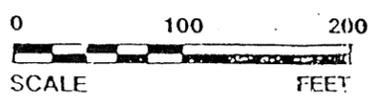
Figure No.: 1

LOS ANGELES WATER CO.

SITE PLOT PLAN



KEY
 MW-2
 GROUND WATER MONITORING WELL.

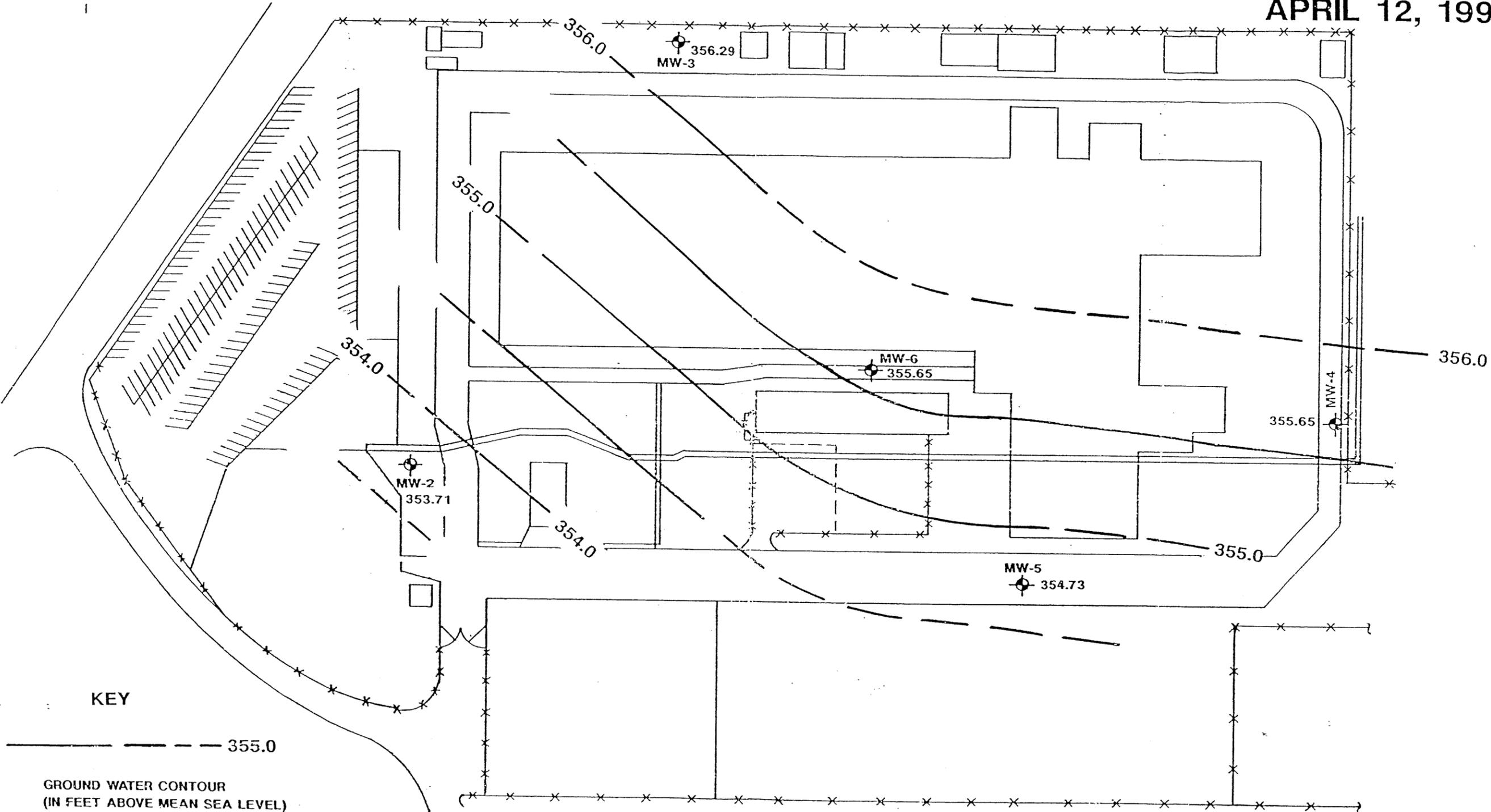
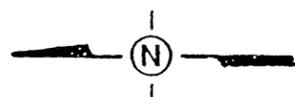


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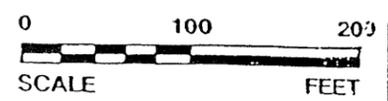
Project No.: 1614-06 Figure No.: 2

GROUND WATER PIEZOMETRIC SURFACE APRIL 12, 1990



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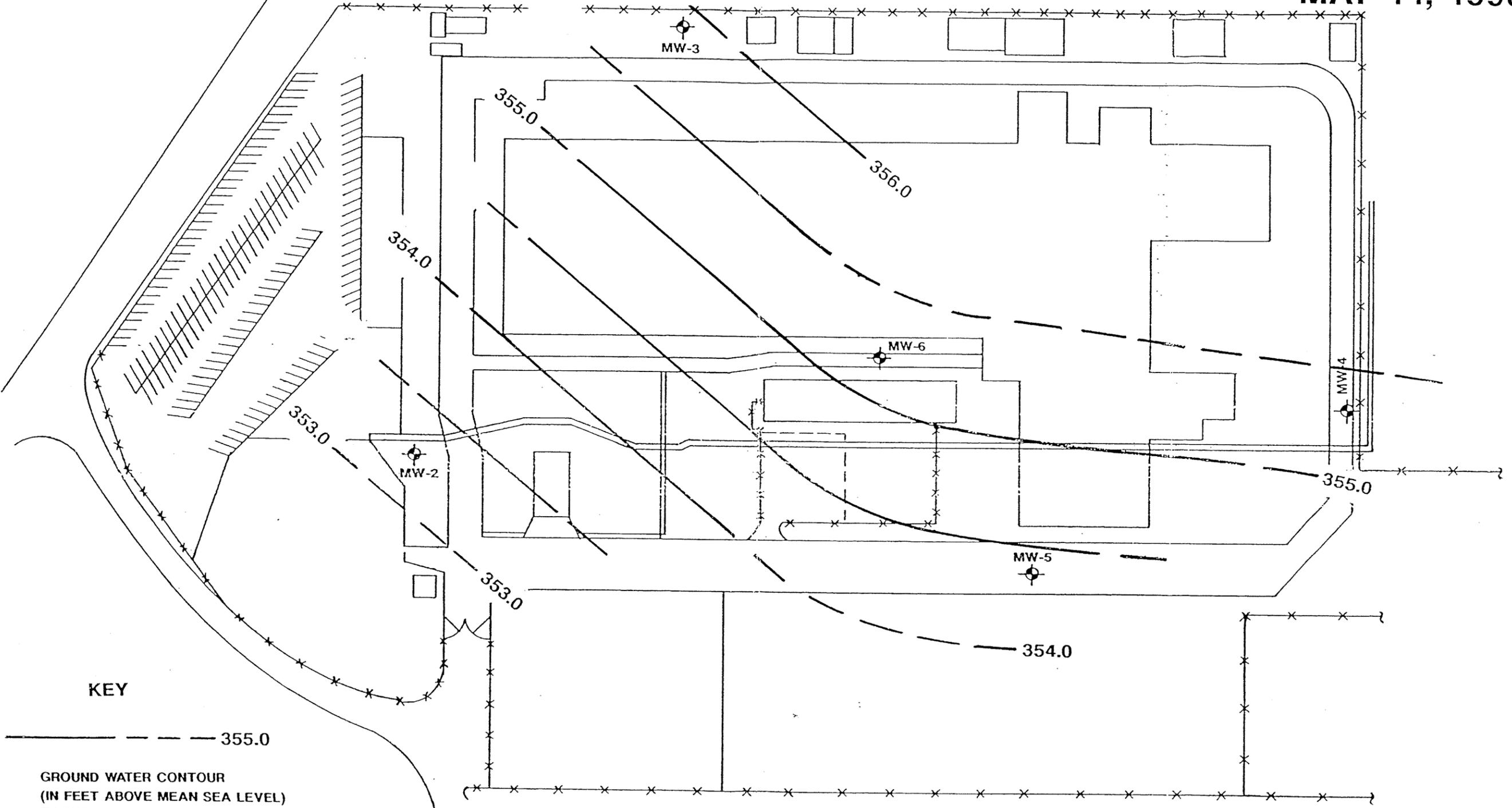
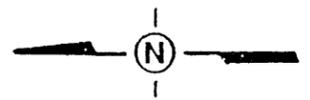
--- 355.0
 GROUND WATER CONTOUR
 (IN FEET ABOVE MEAN SEA LEVEL)
 DASHED WHERE APPROXIMATE.



MAY 90

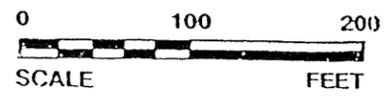
HYDRO-FLUENT, INC. geology • engineering • environmental services		UTILITY TRAILER MANUFACTURING, CO 1730 E. CHESTNUT STREET CITY OF INDUSTRY, CALIFORNIA	
		Project No.: 1614-06	Figure No.: 3

GROUND WATER PIEZOMETRIC SURFACE MAY 14, 1990



KEY

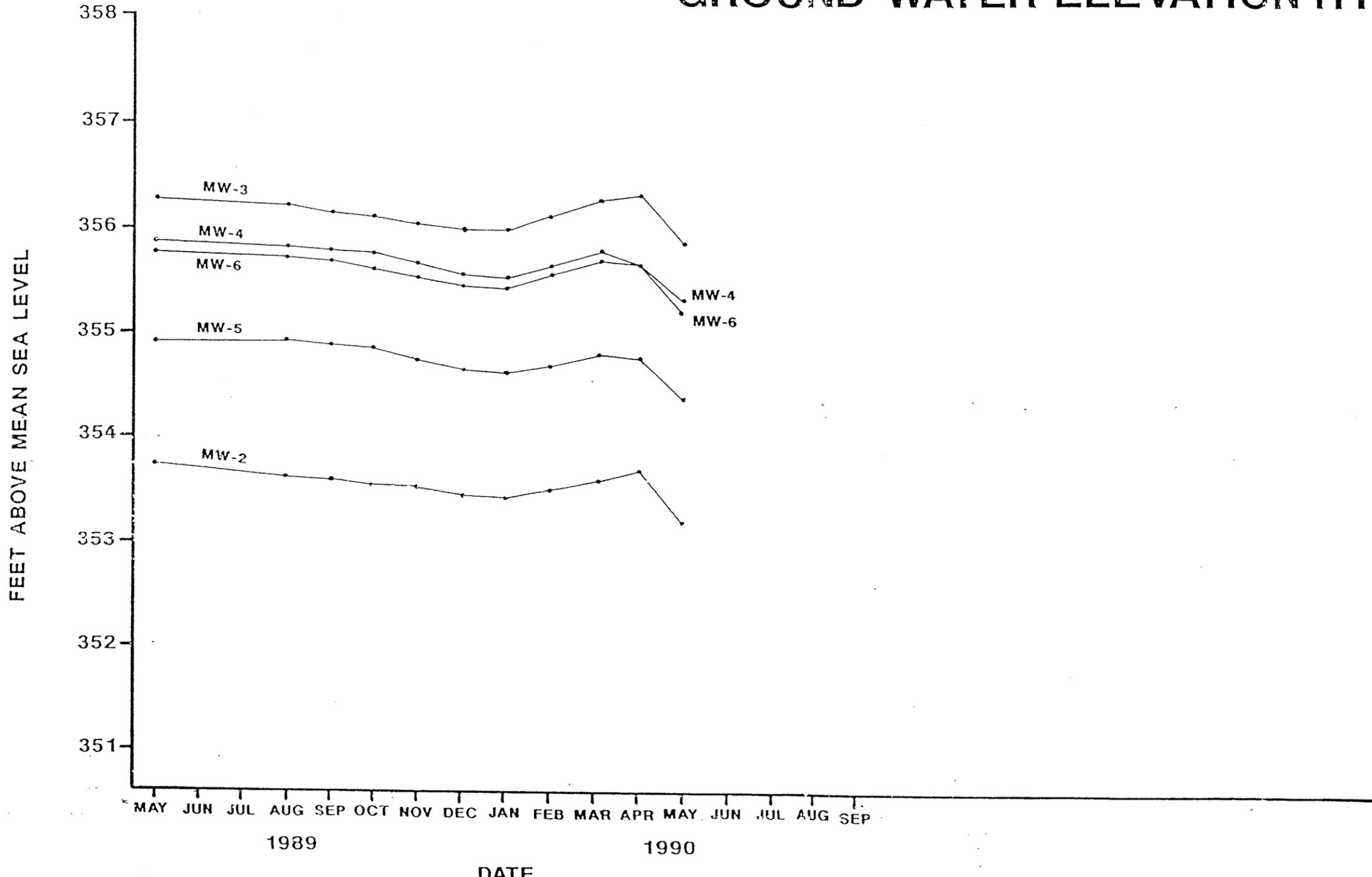
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 GROUND WATER CONTOUR
 (IN FEET ABOVE MEAN SEA LEVEL)
 DASHED WHERE APPROXIMATE.



MAY 90

HYDRO-FLUENT, INC. <small>geology • engineering • environmental services</small> 	UTILITY TRAILER MANUFACTURING, CO 1730 E. CHESTNUT STREET CITY OF INDUSTRY, CALIFORNIA	
	Project No.: 1614-06	Figure No.: 4

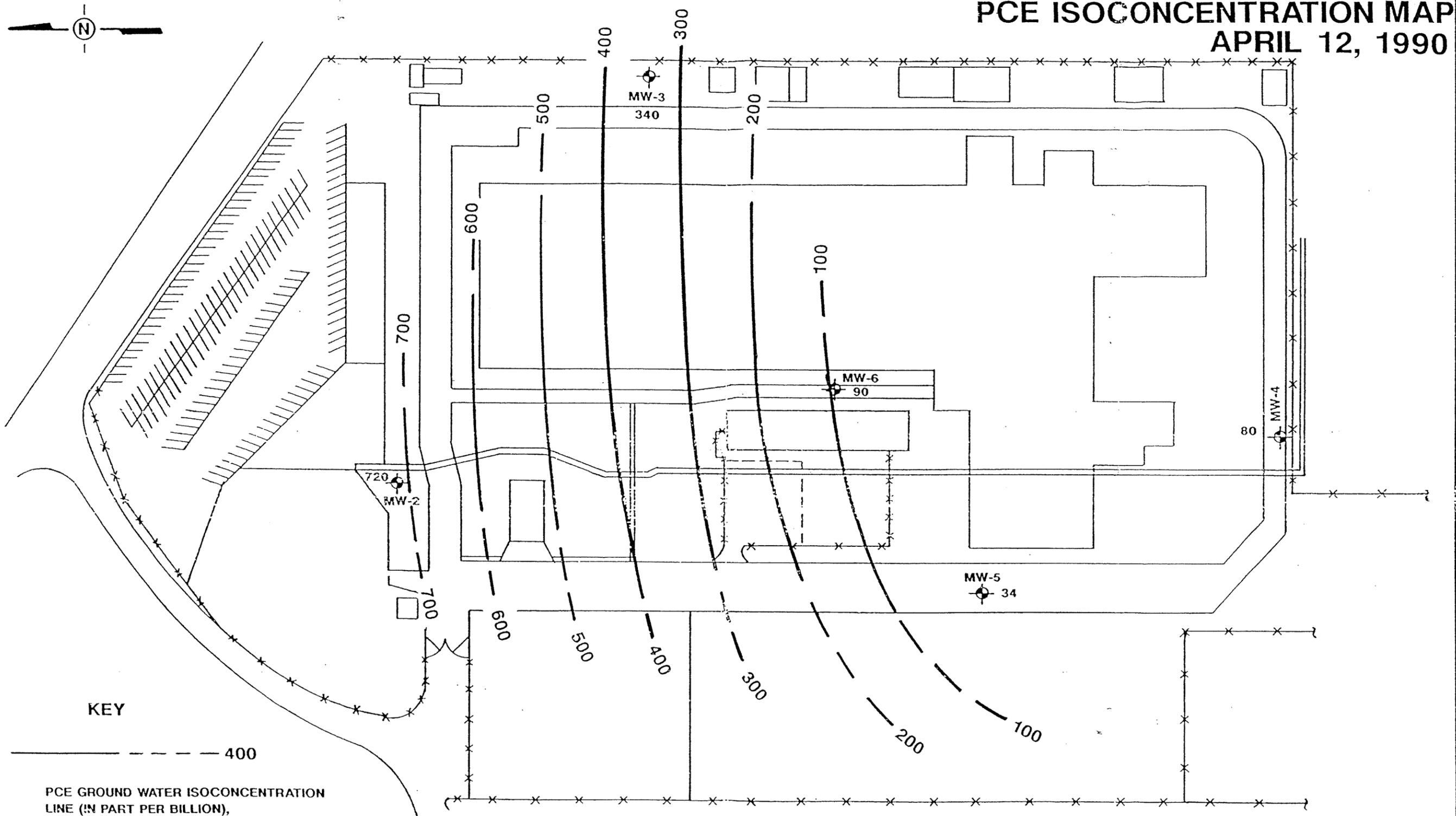
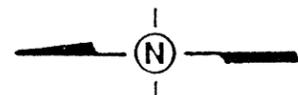
GROUND WATER ELEVATION HYDROGRAPH



MAY 90

HYDRO-FLUENT, INC. <small>geology • engineering • environmental services</small>		UTILITY TRAILER MANUFACTURING 1730 E. CHESTNUT STREET CITY OF INDUSTRY, CALIFORNIA
Project No.: 1614-06		Figure No.: 5

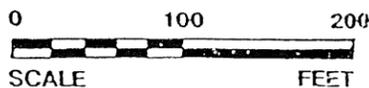
PCE ISOCONCENTRATION MAP APRIL 12, 1990



KEY

----- 400

PCE GROUND WATER ISOCONCENTRATION
LINE (IN PART PER BILLION),
DASHED WHERE APPROXIMATE.



HYDRO-FLUENT, INC.
geology • engineering • environmental services



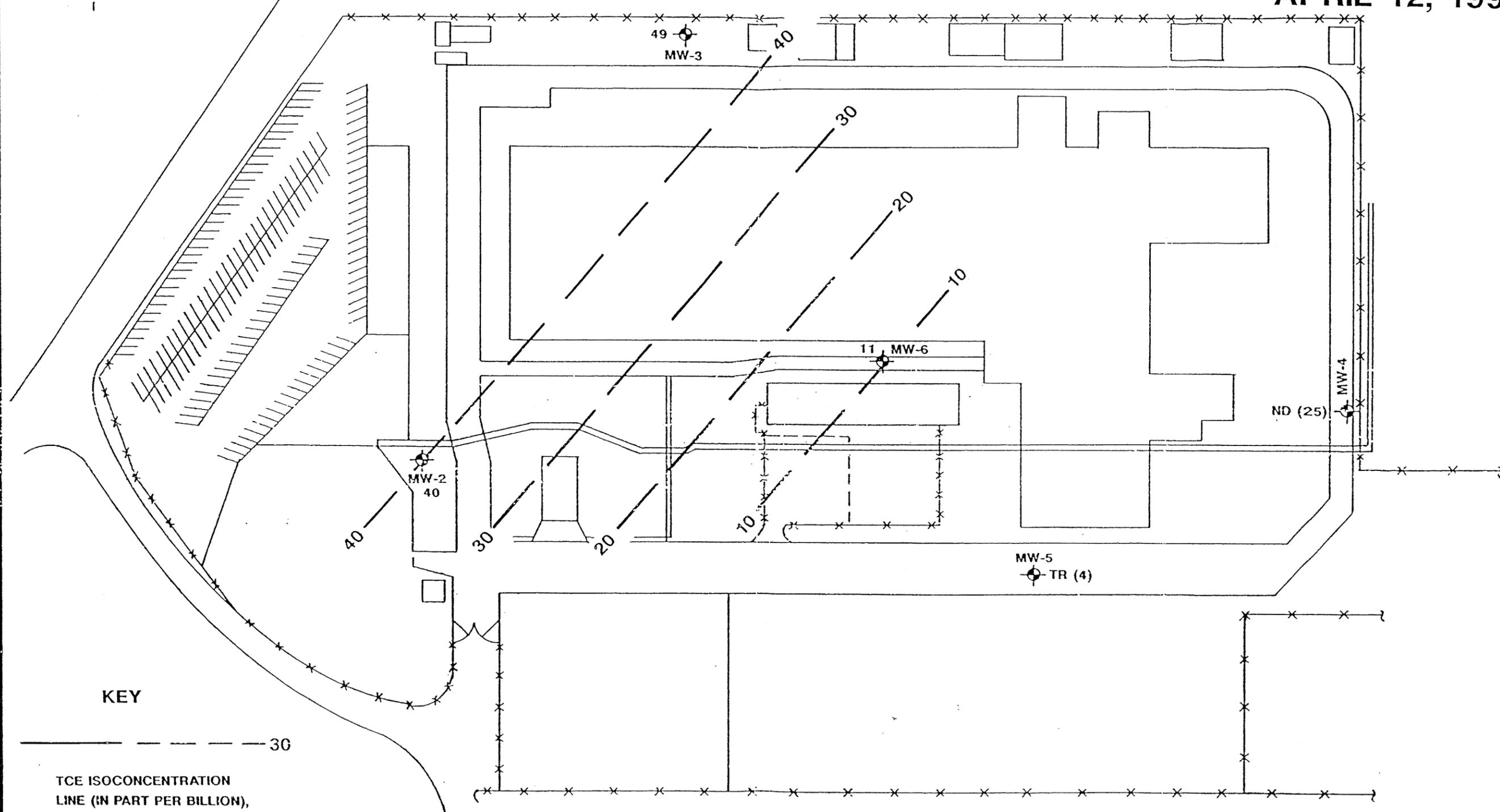
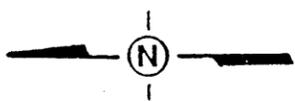
UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 6

MAY 90

TCE ISOCONCENTRATION MAP APRIL 12, 1990

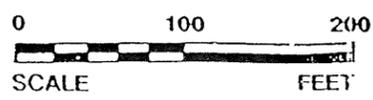


KEY

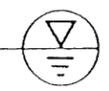
----- 30

TCE ISOCONCENTRATION
LINE (IN PART PER BILLION),
DASHED WHERE APPROXIMATE.

TR TRACE DETECTED, ESTIMATED AMOUNT SHOWN.
ND NONDETECTED, PRACTICAL QUANTIFICATION LIMIT SHOWN.



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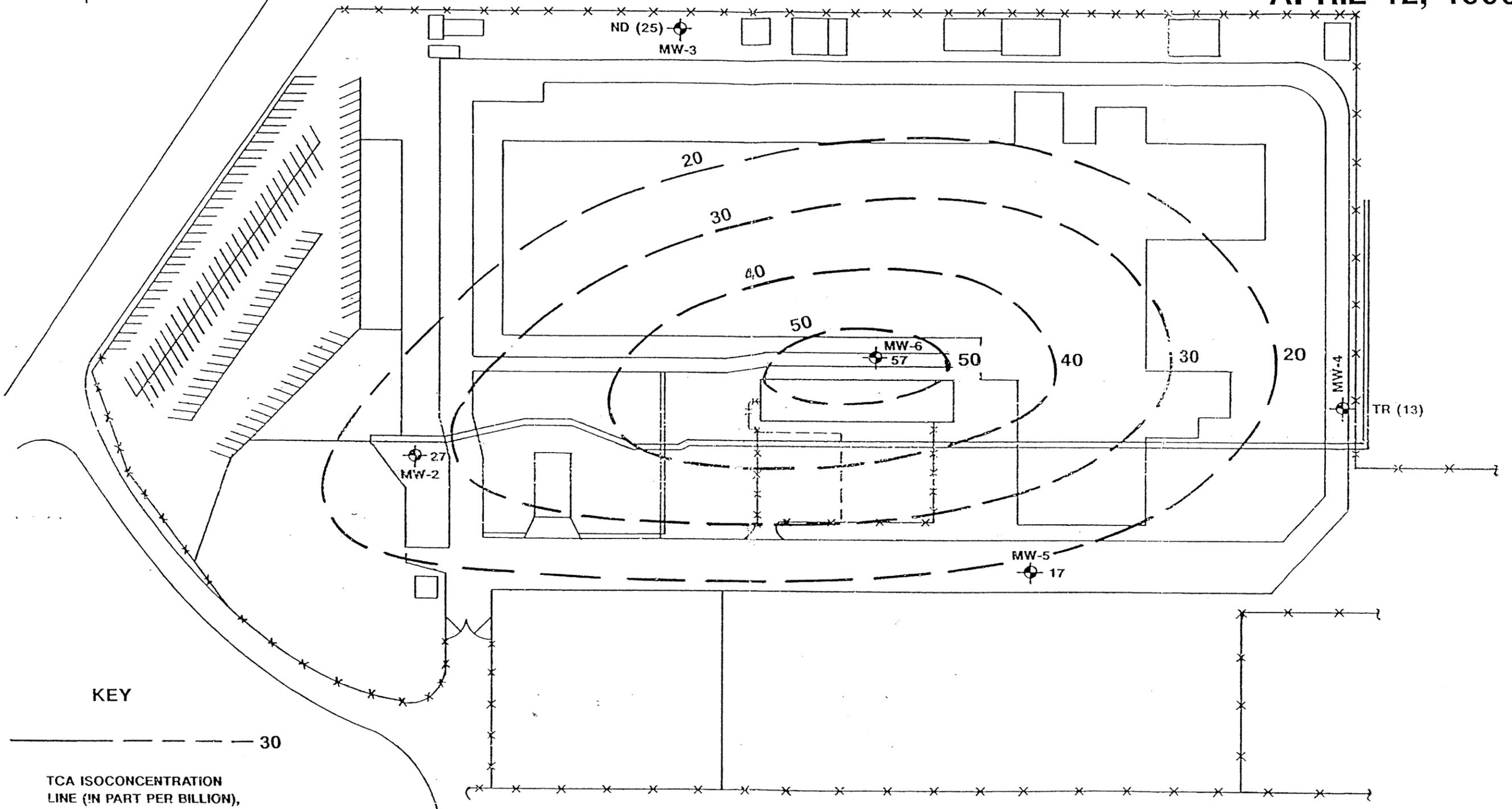
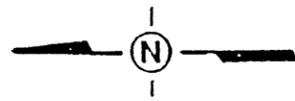
UTILITY TRAILER MANUFACTURING, CO
730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 7

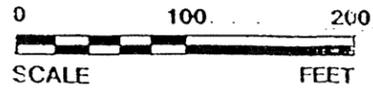
MAY 90

TCA ISOCONCENTRATION MAP APRIL 12, 1990

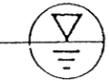


KEY

- 30
- TCA ISOCONCENTRATION LINE (IN PART PER BILLION), DASHED WHERE APPROXIMATE.
- TR TRACE DETECTED, ESTIMATED AMOUNT SHOWN.
- ND NONDETECTED, PRACTICAL QUANTIFICATION LIMIT SHOWN.



HYDRO-FLUENT, INC.
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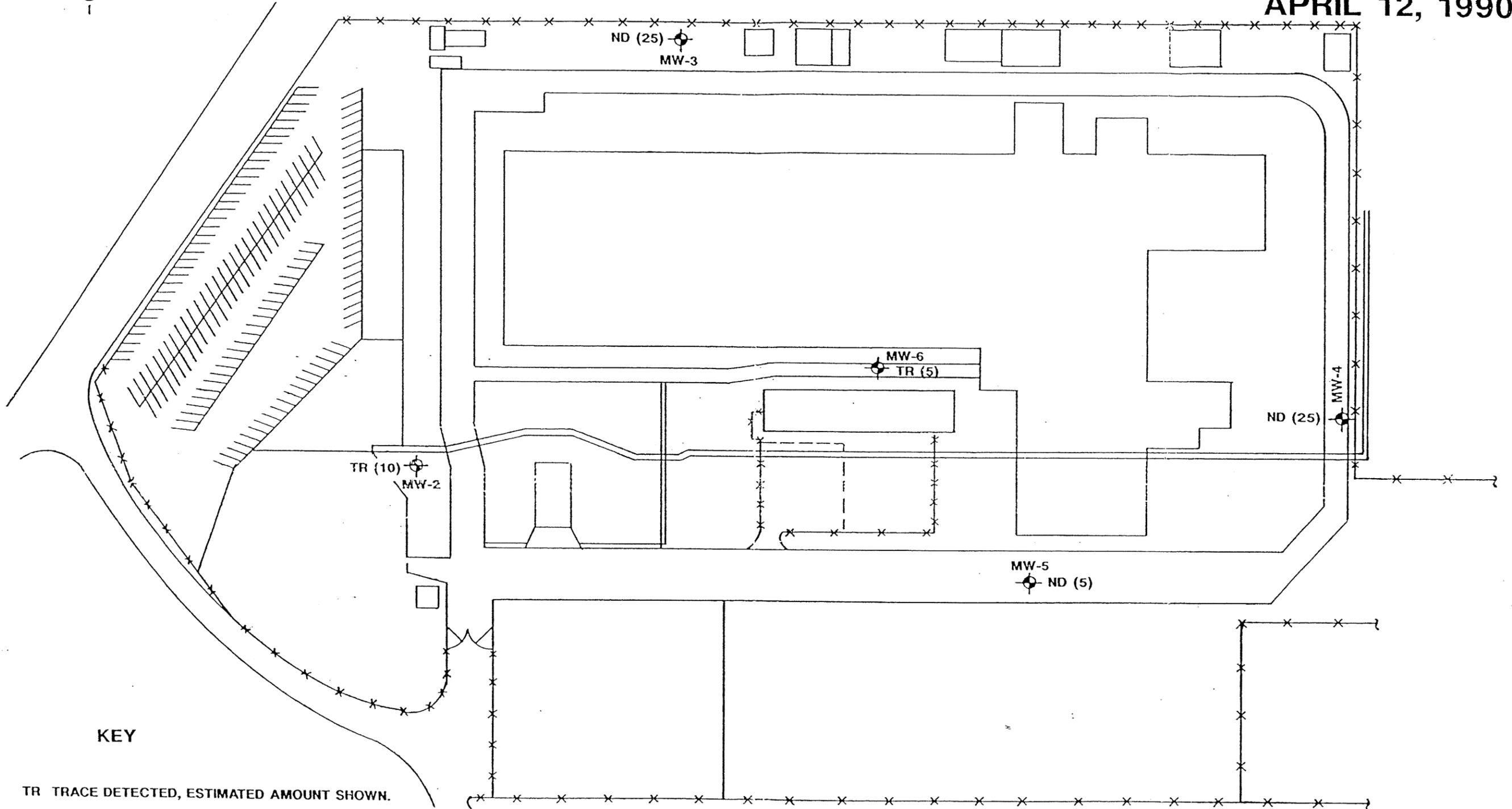
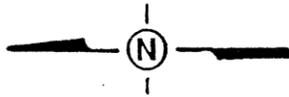
UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 8

MAY 90

DCA ISOCONCENTRATION MAP APRIL 12, 1990

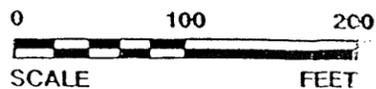


KEY

TR TRACE DETECTED, ESTIMATED AMOUNT SHOWN.

ND NONDETECTED, PRACTICAL QUANTIFICATION LIMIT SHOWN.

NOTE: ISOCONCENTRATION CONTOURS WERE NOT DRAWN
BECAUSE DCA CONCENTRATIONS WERE NOT
QUANTIFIED ABOVE DETECTABLE TRACE AMOUNTS.



MAY 90

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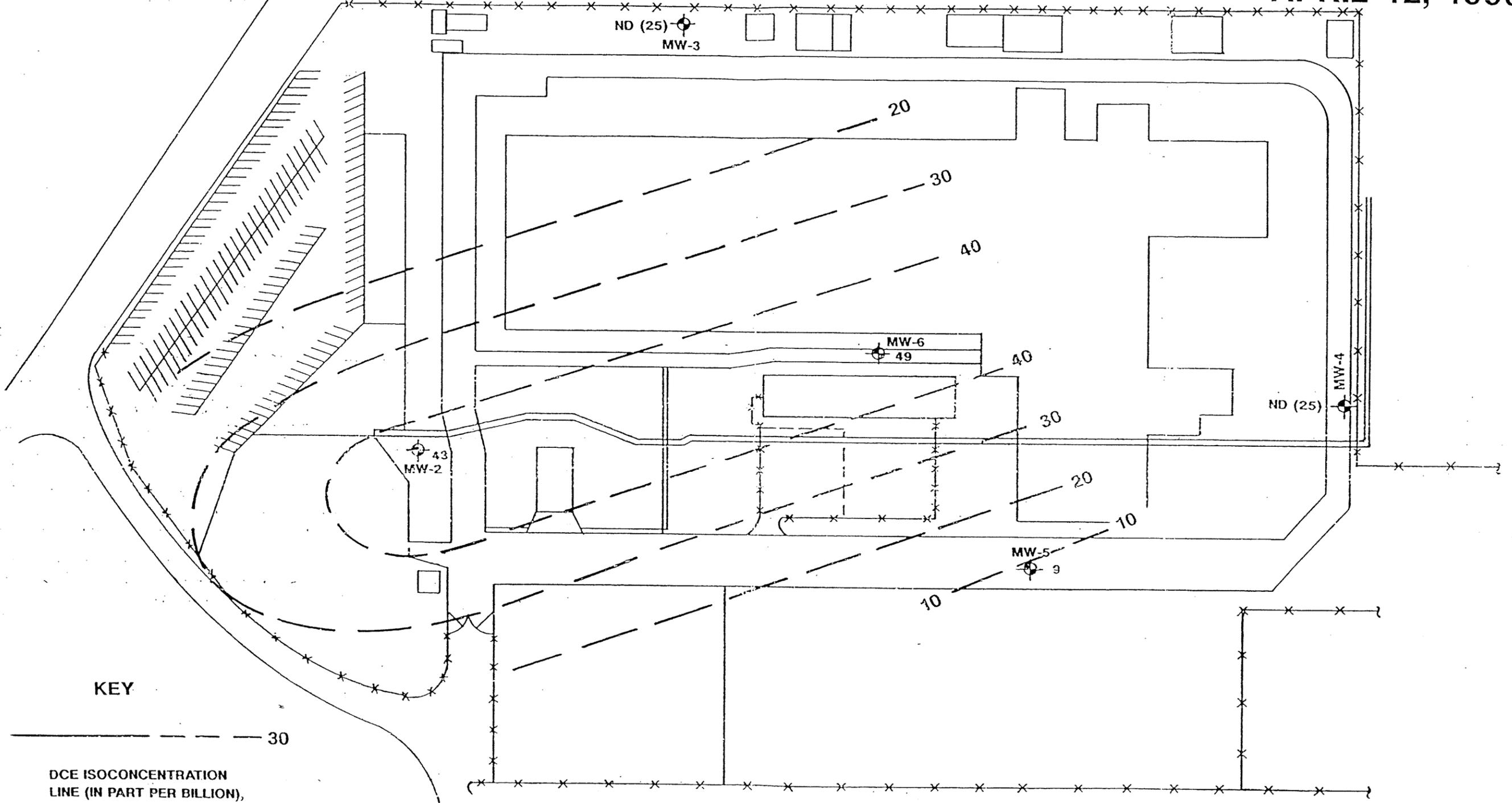
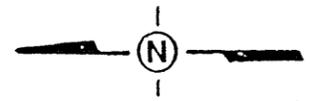


UTILITY TRAILER MANUFACTURING, CO
1730 E. CHESTNUT STREET
CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 9

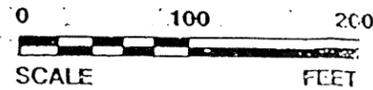
DCE ISOCONCENTRATION MAP APRIL 12, 1990



KEY

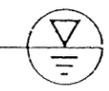
— 30 —
 DCE ISOCONCENTRATION
 LINE (IN PART PER BILLION),
 DASHED WHERE APPROXIMATE.

ND NONDETECTED, PRACTICAL QUANTIFICATION LIMIT SHOWN.



MAY 90

HYDRO-FLUENT, INC.
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UTILITY TRAILER MANUFACTURING, CO
 1730 E. CHESTNUT STREET
 CITY OF INDUSTRY, CALIFORNIA

Project No.: 1614-06

Figure No.: 10

APPENDIX A
CHAIN-OF-CUSTODY FORMS
AND
LABORATORY ANALYSES

UTM 000594

CHAIN OF CUSTODY FORM

Project No.		Project Name		Samplers (Signatures)		
1614-06		UTILITY TRAILER		<i>Alan Beckley</i>		
Sampling Method		Field Conditions				
TELECOM BAKER		<i>Sunny & Warm</i>				
Date	Time	Station Number / Location	Sample Type	Sample Container	Type of Preservative	Analysis Required
4-13-90	10:00 AM	MW-2	WATER	VCA	BLUE ICE	EPA METHOD 824
4-13-90	11:07 AM	MW-3				
4-12-90	11:18 AM	MW-4				
4-12-90	9:48 AM	MW-5				
4-12-90	12:35 PM	MW-6				
4-12-90	10:30 AM	MW-7				
4-13-90	10:00 AM	MW-2 DUPLICATE				
4-13-90	11:07 AM	MW-3				
4-12-90	11:18 AM	MW-4				
4-12-90	7:48 AM	MW-5				
4-12-90	12:35 PM	MW-6				
4-12-90	10:30 AM	MW-7				
Comments		RESULTS TO STAN POPELAR		6.5°C LGF		Total Number of Containers
						12
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Relinquished By (Signature)
<i>A. Beckley</i>	4-13-90	1:37 PM	<i>Chris Mendell</i>	4/13/90	3:19	<i>Chris Mendell</i>
Relinquished By (Signature)	Date	Time	Received By (Signature)	Date	Time	Relinquished By (Signature)



RECEIVED
MAY - 3 1990

LABORATORY REPORT

Report to: Hydro-Fluent, Inc.
701 E. Ball Road
Suite 105
Anaheim, CA 92805

Project Name: Utility Trailer
Project No.: 1614-06
Laboratory No.: 02741
Report Date: 04-26-90
Analysis Request Date: 04-13-90

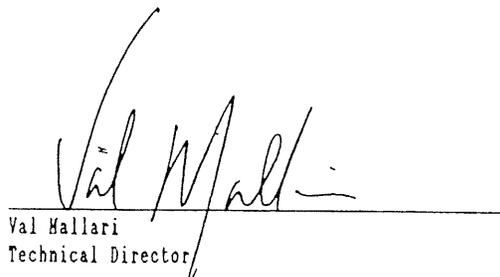
Attention: Stan Popelar

Sample Description: Six Aqueous Samples

Testing Method: Volatile Organics Analysis/GC-MS; EPA Method 624

Results for the 624 analyses are given on the following summary sheet(s).


Manny Velazquez
Assistant Laboratory Manager


Val Mallari
Technical Director

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

1614-06/MW2

Sample No.: 2741-001

Client: HYDRO FLUENT

ata File: >2AUW5

Matrix: WATER

Sample wt/vol: 1.00 ml

Date Received: 04/13/90

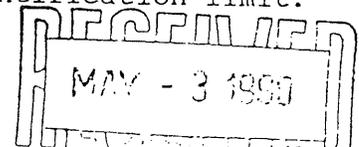
Analyst: JANET

Date Analyzed: 4/18/90

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl Chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene Chloride	25.	U
75-69-4	Trichlorofluoromethane	50.	U
67-64-1	Acetone	50.	U
75-15-0	Carbon Disulfide	25.	U
156-60-5	Trans-1,2-Dichloroethene	25.	U
75-35-4	1,1-Dichloroethene	43.	@
75-34-3	1,1-Dichloroethane	10.	@T
67-66-3	Chloroform	25.	U
107-02-2	1,2-Dichloroethane	25.	U
78-93-3	2-Butanone	50.	U
71-55-6	1,1,1-Trichloroethane	27.	@
56-23-5	Carbon Tetrachloride	25.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	25.	U
78-87-5	1,2-Dichloropropane	25.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U
79-01-6	Trichloroethene	40.	@
124-48-1	Dibromochloromethane	25.	U
79-00-5	1,1,2-Trichloroethane	25.	U
71-43-2	Benzene	25.	U
10061-02-6	trans-1,3-Dichloropropene	25.	U
75-25-2	Bromoform	25.	U
108-10-1	4-Methyl-2-pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	720.	@
79-34-5	1,1,2,2-Tetrachloroethane	25.	U
108-88-3	Toluene	25.	U
108-90-7	Chlorobenzene	25.	U
100-41-4	Ethylbenzene	25.	U
100-42-5	Styrene	25.	U
133-02-7	Xylene (total)	25.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
@ = Compound was found in sample.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

1614-06/MW3

Lab Sample No.: 2741-002

Client: HYDRO FLUENT

Data File: >2AUW6

Matrix: WATER

Sample wt/vol: 1.00 ml

Date Received: 04/13/90

Analyst: JANET

Date Analyzed: 4/18/90

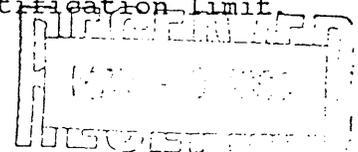
Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	Chloromethane	50.	U
74-83-9	Bromomethane	50.	U
75-01-4	Vinyl Chloride	50.	U
75-00-3	Chloroethane	50.	U
75-09-2	Methylene Chloride	25.	U
75-69-4	Trichlorofluoromethane	50.	U
67-64-1	Acetone	50.	U
75-15-0	Carbon Disulfide	25.	U
156-60-5	Trans-1,2-Dichloroethene	25.	U
75-35-4	1,1-Dichloroethene	25.	U
75-34-3	1,1-Dichloroethane	25.	U
67-66-3	Chloroform	25.	U
107-02-2	1,2-Dichloroethane	25.	U
78-93-3	2-Butanone	50.	U
71-55-6	1,1,1-Trichloroethane	25.	U
56-23-5	Carbon Tetrachloride	25.	U
108-05-4	Vinyl Acetate	50.	U
75-27-4	Bromodichloromethane	25.	U
78-87-5	1,2-Dichloropropane	25.	U
10061-01-5	cis-1,3-Dichloropropene	25.	U
79-01-6	Trichloroethene	49.	@
124-48-1	Dibromochloromethane	25.	U
79-00-5	1,1,2-Trichloroethane	25.	U
71-43-2	Benzene	25.	U
10061-02-6	trans-1,3-Dichloropropene	25.	U
75-25-2	Bromoform	25.	U
108-10-1	4-Methyl-2-pentanone	50.	U
591-78-6	2-Hexanone	50.	U
127-18-4	Tetrachloroethene	340.	@
79-34-5	1,1,2,2-Tetrachloroethane	25.	U
108-88-3	Toluene	25.	U
108-90-7	Chlorobenzene	25.	U
100-41-4	Ethylbenzene	25.	U
100-42-5	Styrene	25.	U
133-02-7	Xylene (total)	25.	U

U = Compound undetected. Concentration listed is detection limit.

T = Trace. Amount shown is approximate and below quantification limit.

@ = Compound was found in sample.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

1614-06/MW4

Lab Sample No.: 2741-003

Client: HYDRO FLUENT

Lab File: >2AUW7

Matrix: WATER

Sample wt/vol: 1.00 ml

Date Received: 04/13/90

Analyst: JANET

Date Analyzed: 4/18/90

Dilution Factor: 5.00

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	-----Chloromethane	50.	U
74-83-9	-----Bromomethane	50.	U
75-01-4	-----Vinyl Chloride	50.	U
75-00-3	-----Chloroethane	50.	U
75-09-2	-----Methylene Chloride	25.	U
75-69-4	-----Trichlorofluoromethane	50.	U
67-64-1	-----Acetone	50.	U
75-15-0	-----Carbon Disulfide	25.	U
156-60-5	-----Trans-1,2-Dichloroethene	25.	U
75-35-4	-----1,1-Dichloroethene	25.	U
75-34-3	-----1,1-Dichloroethane	25.	U
67-66-3	-----Chloroform	25.	U
107-02-2	-----1,2-Dichloroethane	25.	U
78-93-3	-----2-Butanone	50.	U
71-55-6	-----1,1,1-Trichloroethane	13.	@T
56-23-5	-----Carbon Tetrachloride	25.	U
108-05-4	-----Vinyl Acetate	50.	U
75-27-4	-----Bromodichloromethane	25.	U
78-87-5	-----1,2-Dichloropropane	25.	U
10061-01-5	-----cis-1,3-Dichloropropene	25.	U
79-01-6	-----Trichloroethene	25.	U
124-48-1	-----Dibromochloromethane	25.	U
79-00-5	-----1,1,2-Trichloroethane	25.	U
71-43-2	-----Benzene	25.	U
10061-02-6	-----trans-1,3-Dichloropropene	25.	U
75-25-2	-----Bromoform	25.	U
108-10-1	-----4-Methyl-2-pentanone	50.	U
591-78-6	-----2-Hexanone	50.	U
127-18-4	-----Tetrachloroethene	80.	@
79-34-5	-----1,1,2,2-Tetrachloroethane	25.	U
108-88-3	-----Toluene	25.	U
108-90-7	-----Chlorobenzene	25.	U
100-41-4	-----Ethylbenzene	25.	U
100-42-5	-----Styrene	25.	U
133-02-7	-----Xylene (total)	25.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
@ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

1614-06/MW5

Lab Sample No.: 2741-004

Client: HYDRO FLUENT

Data File: >2AUX6

Matrix: WATER

Sample wt/vol: 5.00 ml

Date Received: 04/13/90

Analyst: JANET

Date Analyzed: 4/19/90

Dilution Factor: 1.00

CONCENTRATION

UNITS:

ug/L

Q

CAS NO.	COMPOUND	CONCENTRATION UNITS: ug/L	Q
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	9.	@
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	17.	@
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	4.	@T
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	34.	@
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.

T = Trace. Amount shown is approximate and below quantification limit.

@ = Compound was found in sample.

1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

1614-06/MW7

Sample No.: 2741-006

Client: HYDRO FLUENT

ata File: >2AU5

Matrix: WATER

Sample wt/vol: 5.00 ml

Date Received: 04/13/90

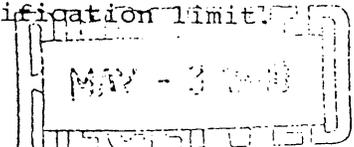
Analyst: JANET

Date Analyzed: 4/20/90

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	Chloromethane	10.	U
74-83-9	Bromomethane	10.	U
75-01-4	Vinyl Chloride	10.	U
75-00-3	Chloroethane	10.	U
75-09-2	Methylene Chloride	5.	U
75-69-4	Trichlorofluoromethane	10.	U
67-64-1	Acetone	10.	U
75-15-0	Carbon Disulfide	5.	U
156-60-5	Trans-1,2-Dichloroethene	5.	U
75-35-4	1,1-Dichloroethene	5.	U
75-34-3	1,1-Dichloroethane	5.	U
67-66-3	Chloroform	5.	U
107-02-2	1,2-Dichloroethane	5.	U
78-93-3	2-Butanone	10.	U
71-55-6	1,1,1-Trichloroethane	5.	U
56-23-5	Carbon Tetrachloride	5.	U
108-05-4	Vinyl Acetate	10.	U
75-27-4	Bromodichloromethane	5.	U
78-87-5	1,2-Dichloropropane	5.	U
10061-01-5	cis-1,3-Dichloropropene	5.	U
79-01-6	Trichloroethene	5.	U
124-48-1	Dibromochloromethane	5.	U
79-00-5	1,1,2-Trichloroethane	5.	U
71-43-2	Benzene	5.	U
10061-02-6	trans-1,3-Dichloropropene	5.	U
75-25-2	Bromoform	5.	U
108-10-1	4-Methyl-2-pentanone	10.	U
591-78-6	2-Hexanone	10.	U
127-18-4	Tetrachloroethene	5.	U
79-34-5	1,1,2,2-Tetrachloroethane	5.	U
108-88-3	Toluene	5.	U
108-90-7	Chlorobenzene	5.	U
100-41-4	Ethylbenzene	5.	U
100-42-5	Styrene	5.	U
133-02-7	Xylene (total)	5.	U.

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
@ = Compound was found in sample.



1A
VOLATILE ORGANICS ANALYSIS DATA SHEET
EPA METHOD 624

CLIENT SAMPLE NO.

1614-06/MW6

Sample No.: 2741-005

Client: HYDRO FLUENT

Data File: >2AU4

Matrix: WATER

Sample wt/vol: 5.00 ml

Date Received: 04/13/90

Analyst: JANET

Date Analyzed: 4/20/90

Dilution Factor: 1.00

CAS NO.	COMPOUND	CONCENTRATION	
		UNITS:	Q
		ug/L	
74-87-3	-----Chloromethane	10.	U
74-83-9	-----Bromomethane	10.	U
75-01-4	-----Vinyl Chloride	10.	U
75-00-3	-----Chloroethane	10.	U
75-09-2	-----Methylene Chloride	5.	U
75-69-4	-----Trichlorofluoromethane	10.	U
67-64-1	-----Acetone	10.	U
75-15-0	-----Carbon Disulfide	5.	U
156-60-5	-----Trans-1,2-Dichloroethene	5.	U
75-35-4	-----1,1-Dichloroethene	49.	@ E
75-34-3	-----1,1-Dichloroethane	5.	@T
67-66-3	-----Chloroform	5.	U
107-02-2	-----1,2-Dichloroethane	5.	U
78-93-3	-----2-Butanone	10.	U
71-55-6	-----1,1,1-Trichloroethane	57.	@
56-23-5	-----Carbon Tetrachloride	5.	U
108-05-4	-----Vinyl Acetate	10.	U
75-27-4	-----Bromodichloromethane	5.	U
78-87-5	-----1,2-Dichloropropane	5.	U
10061-01-5	-----cis-1,3-Dichloropropene	5.	U
79-01-6	-----Trichloroethene	11.	@
124-48-1	-----Dibromochloromethane	5.	U
79-00-5	-----1,1,2-Trichloroethane	5.	U
71-43-2	-----Benzene	5.	U
10061-02-6	-----trans-1,3-Dichloropropene	5.	U
75-25-2	-----Bromoform	5.	U
108-10-1	-----4-Methyl-2-pentanone	10.	U
591-78-6	-----2-Hexanone	10.	U
127-18-4	-----Tetrachloroethene	~90.	@
79-34-5	-----1,1,2,2-Tetrachloroethane	5.	U
108-88-3	-----Toluene	5.	U
108-90-7	-----Chlorobenzene	5.	U
100-41-4	-----Ethylbenzene	5.	U
100-42-5	-----Styrene	5.	U
133-02-7	-----Xylene (total)	5.	U

U = Compound undetected. Concentration listed is detection limit.
T = Trace. Amount shown is approximate and below quantification limit.
@ = Compound was found in sample. E = Estimated concentration.

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